CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2017-08-30-02** **Date: 02-09-17**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Meeting Hall at Nisarga Ground in Ward No.03, Attur.
Agency	:	Technical Manager (West), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/98/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-08-17
Sample ID No	:	2017-08-30-02-03
Sample Type/Size	:	Solid concrete blocks of size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex - C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	30-08-17

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	400	201	201	16160	32.400	2004.9	1992.7	Not less than 1800Kg/m^3
2	402	200	200	16080	31.600	1965.2		
3	401	200	202	16200	32.530	2008.0		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.900	32.350	4.79	4.77	Shall not be more than 10% by mass
2	33.280	31.800	4.65		
3	33.750	32.180	4.88		

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Lab ID : **CP-2017-08-30-02**

Sample ID No : **2017-08-30-02-03**

Date: 02-09-17

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	202	200	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	400	200	201	
3	400	201	200	
4	401	200	202	
5	402	201	202	
6	401	200	201	
7	402	201	201	
8	401	200	202	
9	402	202	202	
10	403	202	201	
11	404	202	203	
12	402	203	203	
13	402	203	203	
14	402	202	203	
15	401	200	200	
16	401	200	200	
17	402	201	200	
18	400	203	202	
19	400	200	202	
20	403	201	201	
Average of 20	402	201	201	

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Lab ID : CP-2017-08-30-02

Sample ID No : 2017-08-30-02-03

Date: 02-09-17

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	401	202	81002	366.4	4.5	4.7
2	400	200	80000	377.8	4.7	
3	400	201	80400	388.9	4.8	
4	401	200	80200	375.4	4.7	
5	402	201	80802	345.8	4.3	
6	401	200	80200	389.2	4.9	
7	402	201	80802	380.1	4.7	
8	401	200	80200	379.3	4.7	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Quality Manager

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CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 12/09/2017

Lab ID	:	**CP-2017-09-11-08**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Meeting Hall at Nisarga Ground in Ward No.03, Attur.
Agency	:	Technical Manager (West), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/98/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-09-17
Sample ID No	:	2017-09-11-08-01
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/09/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	05/09/2017	12/09/2017	150.32 X 150.34 X 150.35	22599	8.345	397.7	17.6	17.6
2	M20 Concrete	M20	05/09/2017	12/09/2017	150.22 X 150.24 X 150.25	22569	8.388	404.0	17.9	
3	M20 Concrete	M20	05/09/2017	12/09/2017	150.32 X 150.34 X 150.40	22599	8.289	391.0	17.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 03/10/2017

Lab ID	:	CP-2017-09-11-08
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Meeting Hall at Nisarga Ground in Ward No.03, Attur.
Agency	:	Technical Manager (West), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/98/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-09-17
Sample ID No	:	2017-09-11-08-02
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/10/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	05/09/2017	03/10/2017	150.32 X 150.34 X 150.35	22599	8.345	506.2	22.4	22.1
2	M20 Concrete	M20	05/09/2017	03/10/2017	150.22 X 150.24 X 150.25	22569	8.388	498.8	22.1	
3	M20 Concrete	M20	05/09/2017	03/10/2017	150.32 X 150.34 X 150.40	22599	8.289	494.9	21.9	

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CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-09-23-05 **Date: 26/09/2017**

Customer : Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

Address : Yelahanka New Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Meeting Hall at Nisarga Ground in Ward No.03, Attur.

Agency : Technical Manager (West), KRIDL, BBMP, Bangalore.

Customer's Reference : BBMP/EE(YNK.D)/W.O/98/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-09-17

Sample ID No : 2017-09-23-05-01

Customer ID : Lintel, Chejja Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/09/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Lintel, Chejja Concrete	M20	19/09/2017	26/09/2017	150.52 X 150.54 X 150.35	22659	8.345	410.1	18.1	17.8
2	Lintel, Chejja Concrete	M20	19/09/2017	26/09/2017	150.42 X 150.24 X 150.45	22599	8.388	395.5	17.5	
3	Lintel, Chejja Concrete	M20	19/09/2017	26/09/2017	150.42 X 150.34 X 150.40	22614	8.289	404.8	17.9	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-09-23-05 **Date: 17/10/2017**

Customer : Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

Address : Yelahanka New Town Sub Division, BBMP, Bangalore.

Project Name : Construction of Meeting Hall at Nisarga Ground in Ward No.03, Attur.

Agency : Technical Manager (West), KRIDL, BBMP, Bangalore.

Customer's Reference : BBMP/EE(YNK.D)/W.O/98/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-09-17

Sample ID No : 2017-09-23-05-02

Customer ID : Lintel, Chejja Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/10/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Lintel, Chejja Concrete	M20	19/09/2017	17/10/2017	150.52 X 150.54 X 150.35	22659	8.345	503.0	22.2	22.5
2	Lintel, Chejja Concrete	M20	19/09/2017	17/10/2017	150.42 X 150.24 X 150.45	22599	8.388	510.7	22.6	
3	Lintel, Chejja Concrete	M20	19/09/2017	17/10/2017	150.42 X 150.34 X 150.40	22614	8.289	515.6	22.8	

Note:

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